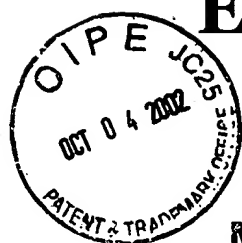


#5

# Electronic Information Disclosure Statement



## METHOD FOR RESOLVING ADDRESS SPACE CONFLICTS BETWEEN A VIRTUAL MACHINE MONITOR AND A GUEST OPERATING SYSTEM

Application:



09/752587

Confirmation: 1639

Applicant(s): Richard Uhlig

Docket Number: 042390P9768

Group Art Unit:

Examiner: Unassigned

search string: ( 4,278,837 or 4,307,214 or 4,366,537 or 4,521,852 or 5,075,842 or 5,022,077 or 5,255,379 or 5,293,424 or 5,421,006 or 5,459,869 or 5,473,692 or 5,479,509 or 5,568,552 or 5,615,263 or 5,657,445 or 5,717,903 or 5,729,760 or 5,764,969 or 5,796,845 or 5,805,712 or 5,835,594 or 5,844,986 or 5,890,189 or 5,937,063 or 5,978,481 or 5,987,557 or 6,014,745 or 6,058,478 or 6,158,546 or 6,175,925 or 6,178,509 or 6,205,550 or 6,282,651 or 6,282,657 or 20010037450 ).pn.

RECEIVED  
OCT 09 2002  
Technology Center 2100

### US Patent Documents

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
P01	P01	4,278,837	1981-07-14		Best		
			1977-07-				

12/81

McDaniel et al

KT	P02	4,307,214 (2)	19		Birney, et al.
KT	P03	4,366,537	1982-12-28		Heller, et al.
KT	P04	4,521,852	1985-06-04		Gutttag
KT	P05	5,075,842	1991-12-24		Lai
KT	P06	5,022,077	1991-06-04		Bealkowski, et al.
KT	P07	5,255,379	1993-10-19		Melo
KT	P08	5,293,424	1994-03-08		Hotley, et al.
KT	P09	5,421,006	1995-05-30		Jablon, et al
KT	P10	5,459,869	1995-10-17		Spilo
KT	P11	5,473,692	1995-12-05		Davis
KT	P12	5,479,509	1995-12-26		Ugon
KT	P13	5,568,552	1996-12-22		Davis
KT	P14	5,615,263	1997-03-25		Takahashi
KT	P15	5,657,445	1997-08-12		Pearce
KT	P16	5,717,903	1998-02-10		Bonola
KT	P17	5,729,760	1998-03-17		Poisner
KT	P18	5,764,969	1998-06-09		Kahle, et al.
KT	P19	5,796,845 (2)	1998-08-18		Serikawa, et al.
KT	P20	5,805,712	1998-09-08		Davis
			1998-11-		

Asw  
FL

KT	P21	5,835,594	10 11/98		Albrecht, et al.
KT	P22	5,844,986	1998-12-01		Davis
KT	P23	5,890,189	1999-03-03		Nozue, et al.
KT	P24	5,937,063	1999-08-10		Davis
KT	P25	5,978,481	1999-11-02		Ganesan, et al.
KT	P26	5,987,557	1999-11-16		Ebrahim
KT	P27	6,014,745	2000-01-11		Ashe
KT	P28	6,058,478	2000-05-02		Davis
KT	P29	6,158,546	2000-12-12		Hanson, et al.
KT	P30	6,175,925	2001-01-16		Nardone, et al.
KT	P31	6,178,509	2001-01-23		Nardone, et al.
KT	P32	6,205,550	2001-03-20		Nardone, et al.
KT	P33	6,282,651	2001-08-28		Ashe
KT	P34	6,282,657	2001-08-28		Kaplan, et al.

## Published Applications

Note: Applicant is not required to submit a paper copy of cited US Patent Documents

init	Citation No.	Patent Number	Date	Bar Code	Patentee	Class	Subclass
KT	U01	20010037450	2001-11-01		Metlitski, et al.		

## Remarks

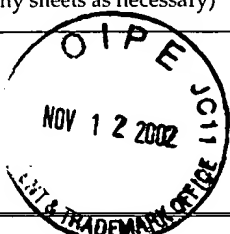
(Remarks are not for responding to an office action.)

Applicants, in accordance with their duty of disclosure under 37 CFR 1.56 and in accordance with 37 CFR 1.97(b)(3), hereby submit this Electronic Information Disclosure Statement citing U.S. Patent Documents for consideration by the Examiner. \* Pursuant to 37 CFR 1.97, the submission of this Electronic Information Disclosure Statement is not to be construed as a representation that a search has been made and is not to be construed as an admission that the information cited in this statement is material to patentability. \* This Information Disclosure Statement is being filed prior to a substantive examination of the claims. Pursuant to 37 CFR 1.97(b), no fee should be required for the filing of this Information Disclosure Statement. In the event it is determined that a fee is due, please charge the fee to Deposit Account 02-2666. \* Applicants respectfully requests that the cited documents be considered and that the form be initialed by the Examiner to indicate such consideration and a copy thereof be returned to Applicants' attorney of record. \*

## Signature


Examiner Name	Date
<i>Harold J. Jurek</i>	5-15-2003

Substitute for Form 1449A/PTO (Modification) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768 Application Number: 09/752,587	
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
Filing Date: December 27, 2000		RECEIVED NOV 13 2002	



U.S. PATENT DOCUMENTS				Technology Center 2100		
Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			
KT		5,455,909		James S. Blomgren, et al.	10-03-1995	—

FOREIGN PATENT DOCUMENTS								
Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T6
		Office <sup>3</sup> Code <sup>5</sup>	Number <sup>4</sup>	Kind (If known)				
KT			EP0600112	A1	Siemens Nixdorf Information System	06-08-1994	—	X Abstract only
KT			EP0930567	A3	Texas Instruments, Inc.	07-21-1999	—	
KT			EP1146715	A1	ContentGuard Holdings, Inc.	10-17-2001	—	
KT			WO 98/34365		AT & T Corporation	08-06-1998	—	
KT			WO 98/44402		British Telecommunications Public Limited Company	10-08-1998	—	
KT			WO 99/05600		Apple Computer, Inc.	02-04-1999	—	
KT			WO 99/09482		Siemens Nixdorf Information System	02-25-1999	—	X Abstract only
KT			WO 99/57863		International Business Machines Corp.	11-11-1999	—	
KT			WO 00/62232		Digital Media On Demand, Inc.	10-19-2000	—	

Examiner Signature		Date Considered	5-15-2003
--------------------	---	-----------------	-----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

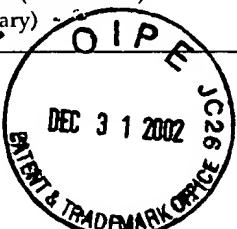
Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/752,587
Page 2 of 2		First Named Inventor: Richard Uhlig, et al.	<b>RECEIVED</b> NOV 13 2002
		Filing Date: December 27, 2000	Technology Center 2100
<b>OTHER ART - NO PATENT LITERATURE DOCUMENTS</b>			
Examiner Initials*	Cite No <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
KT		BERG, Cliff, "How Do I Create A Signed Applet?" Dr. Dobb's Journal, August 1997, pages 1-9	
KT		GOLDBERG, Robert P., "Survey of Virtual Machine Research," IEEE Computer Magazine Vol. 7, No. 6, pages 34-45, 1974	
KT		GONG, Li, et al., "Going Beyond the Sandbox: An Overview of the New Security Architecture in the Java Development Kit 1.2," JavaSoft, Sun Microsystems, Inc., Proceedings of the USENIX Symposium on Internet Technologies and Systems, Monterey, California, 11 pages December 1997	
KT		GUM, P.H., "System/370 Extended Architecture: Facilities for Virtual Machines," IBM J. Research Development, Vol. 27, No. 6, pages 530-544, November 1983	
KT		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Second Edition, Chapter 4: Memory Management, pages 67-79	
KT		INTEL CORPORATION, Intel386™ DX Microprocessor, 32-Bit CMOS Microprocessor With Integrated Memory Management, 56 pages, December 1995	
KT		LAWTON, K., "Running Multiple Operation Systems Concurrently On An IA32 PC Using Virtualization Techniques," <a href="http://www.plex86.org/research/paper.txt">http://www.plex86.org/research/paper.txt</a> , pp 1-31, downloaded August 9, 2001	
KT		MOTOROLA, M68040 User's Manual (Including the MC68040, MC68040V, MC68LC040, MC68EC040, and MC68EC040V), Revised 1993	
KT		ROSENBLUM, M., "VMware's Virtual Platform™ A Virtual Machine Monitor for Commodity PCs," Proceedings of the 11th Hotchips Conference, Stanford University Palo Alto, California, pages 185-196, August 1999	

Examiner Signature	<i>Kathy Takeuchi</i>	Date Considered	5-15-2003
-----------------------	-----------------------	--------------------	-----------

\*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

<sup>1</sup>Unique citation designation number. <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.

Substitute for Form 1449A/PTO (Modified) (use as many sheets as necessary)		Attorney Docket No.: 042390.P9768	Application Number: 09/752,587
Page 1 of 2		First Named Inventor: Richard Uhlig, et al.	
		Filing Date: December 27, 2000	

### U.S. PATENT DOCUMENTS

Exam. Initial*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number Code <sup>2</sup>	Kind (If known)			

### FOREIGN PATENT DOCUMENTS

Exam. Initial*	Cite No. <sup>1</sup>	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Office <sup>3</sup> Code <sup>5</sup>	Number <sup>4</sup>	Kind (If known)				

RECEIVED  
JAN 03 2003

Technology Center 2100

### OTHER ART - NO PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	Translation <sup>2</sup>
RT		HEINRICH, J., "MIPS R4000 Microprocessor User's Manual," Chapter 4, Memory Management, pages 61-97, 1993	

Examiner Signature	Kathy Takeguchi	Date Considered	5-15-03
--------------------	-----------------	-----------------	---------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard S.3). <sup>4</sup>For Japanese patent documents, the indication of the year of reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, DC 20231.